

SPRAY NOZZLE GRID CONFIGURATION
FOR GAS TURBINE INLET MISTING SYSTEM

ABSTRACT OF THE DISCLOSURE

The mister includes a plurality of manifolds extending between opposite sides of a duct. Each manifold carries a plurality of nozzles at laterally spaced positions along the length of the manifold. The manifolds are spaced one behind the other in the direction of air flow in the duct and the pipes connecting the nozzles of the intermediate and upstream manifolds bypass the downstream manifolds to provide the nozzles in a common plane perpendicular to the direction of air flow in the duct. This arrangement affords a uniformity of spray and, hence, a uniformity of humidified air to the inlet of the compressor.